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PATENT APPLICATION
Docket No. 17657.47a

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
)
	Nien-Hua Pai)
)
Serial No.:	10/761,574) Art Unit
) 2625
Filed:	January 21, 2004)
)
For:	EXPOSURE CONTROL DEVICE)
)
Confirmation No.:	3462)
)
Customer No.:	022913)
)
Examiner:	Houshang Safaipoor)

AMENDMENT UNDER 37 C.F.R. § 1.312

Mail Stop **ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 6 of this paper.

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Previously Presented)** An exposure control device for adjusting an amount of light received by a focusing device and a photoelectric conversion device of an image scanning apparatus, the exposure control device comprising:

a control unit configured to generate a control signal according to a certain condition of said image scanning apparatus; and

a light-transmission adjusting device arranged in a light path from an object to said focusing device and said photoelectric conversion device, the light-transmission adjusting device being positioned to change an effective light-transmission area thereof in response to said control signal to adjust light amount passing therethrough, the light-transmission adjusting device comprising:

a driving unit controlled by said control unit to generate a driving force in response to said control signal;

a first optical grid plate arranged in the light path, the first optical grid plate having a first light-transmission area; and

a second optical grid plate having a second light-transmission area smaller than the first light-transmission area and selectively driven by said driving force to be aligned with the first optical grid plate so as to reduce said effective light transmission area;

wherein said certain condition of said image scanning apparatus is a selected resolution of said image scanning apparatus; and

wherein said effective light-transmissible area under high resolution is smaller than that under low resolution.

2. **(Canceled)**

3. **(Previously Presented)** The exposure control device according to claim 1 wherein said driving unit comprises a motor and said second optical grid plate is moved by rotation.

4. **(Canceled)**

5. **(Previously Presented)** The exposure control device according to claim 1 wherein said driving unit comprises a motor coupled with said second optical grid plate for slanting said second optical grid plate to further change said effective light-transmission area according to another condition of said image scanning apparatus.

6-8. **(Canceled)**

9. **(Original)** The exposure control device according to claim 1 wherein said certain condition of said image scanning apparatus is a predetermined comparing result of a voltage value of an output signal from said photoelectric conversion device with a threshold value.

10. **(Original)** The exposure control device according to claim 9 wherein said effective light-transmissible area is enlarged when said voltage value of said output signal is smaller than said threshold value.

11. **(Original)** The exposure control device according to claim 1 wherein said control unit comprises an application specific integrated circuit (ASIC) for asserting said control signal according to said certain condition of said image scanning apparatus.

12. **(Currently Amended)** An exposure control device for adjusting an amount of light received by a focusing device and a photoelectric conversion device of an image scanning apparatus, the exposure control device comprising:

a control unit configured to generate a control signal according to a certain condition of said image scanning apparatus;

a driving unit controlled by said control unit and configured to generate a driving force in response to said control signal; and

an optical grid plate having an aperture, wherein rotation of the optical grid plate by said driving force changes an effective light-transmission area of the aperture by rotating the optical grid plate about;

wherein said certain condition of said image scanning apparatus is a selected resolution of said image scanning apparatus; and

wherein said effective light-transmissible area under high resolution is smaller than that under low resolution.

13. **(Original)** The exposure control device according to claim 12 wherein said driving unit comprises a motor and said optical grid plate is moved by rotation.

14-15. **(Canceled)**

16. **(Original)** The exposure control device according to claim 12 wherein said certain condition of said image scanning apparatus is a predetermined comparing result of a voltage value of an output signal from said photoelectric conversion device with a threshold value.

17. **(Original)** The exposure control device according to claim 16 wherein said effective light-transmissible area is enlarged when said voltage value of said output signal is smaller than said threshold value.

18-20. **(Canceled)**

21. **(Previously Presented)** An exposure control device, comprising:
a control unit configured to generate a control signal;
an optical grid plate having a region with a light-transmissible area, the light transmissible area having an elongate shape with a narrowed central portion; and
means for rotating the optical grid plate to change the effective light-transmissible area of the region in response to the control signal;
wherein the optical grid plate is perpendicular to a light path when the control signal identifies a low resolution and wherein the optical grid plate is slanted when the control signal identifies a high resolution.

22. **(Canceled)**

23. **(Previously Presented)** The exposure control device of claim 21, wherein the control unit is configured to assert the control signal in response to a selected resolution of the scanning apparatus.

24. **(Previously Presented)** The exposure control device of claim 21, wherein the control unit is configured to assert the control signal in response to a comparison of an output signal from the photoelectric conversion device against a threshold value.

25. **(Previously Presented)** The exposure control device of claim 24, wherein the output signal is a voltage and the effective light-transmissible area is enlarged when the voltage is smaller than the threshold value.

REMARKS

By this paper claim 12 has been amended to correct an informality. In the event that the Examiner finds ant impediment to entry this amendment that may be clarified through a telephone interview, or which may be overcome by an Examiner's Amendment, the Examiner is requested to contact the undersigned attorney.

The Commissioner is hereby authorized to charge payment of any of the following fees that may be applicable to this communication, or credit any overpayment, to Deposit Account No. 23-3178: (1) any filing fees required under 37 CFR § 1.16; (2) any patent application and reexamination processing fees under 37 CFR § 1.17; and/or (3) any post issuance fees under 37 CFR § 1.20. In addition, if any additional extension of time is required, which has not otherwise been requested, please consider this a petition therefor and charge any additional fees that may be required to Deposit Account No. 23-3178.

Dated this 9th day of September, 2009.

Respectfully submitted,

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